- [00132] Figure 80 shows an example of a method to look up two vectors of data items in parallel for one vector of indices according to one embodiment of the present invention.
- [00133] Figure 81 shows an example of a method to look up two vectors of data items in parallel for two vectors of indices according to one embodiment of the present invention.
- [00134] Figure 82 shows an example of a method to look up two vectors of data items of extended precision in parallel for one vector of indices according to one embodiment of the present invention.
- [00135] Figure 83 shows another example of a method to look up two vectors of data items of extended precision in parallel for one vector of indices according to one embodiment of the present invention.
- [00136] Figure 84 shows a method to blend two images using a vector look up unit according to one embodiment of the present invention.
- [00137] Figure 85 shows a method to look up vectors of blending factors using a vector look up unit according to one embodiment of the present invention.
- [00138] Figure 86 shows a method to look up two vectors of data items in parallel for two vectors of indices using a vector look up unit according to one embodiment of the present invention.
- [00139] Figures 87 x 89 show flow charts for methods to look up two vectors of data items in parallel for one or two vectors of indices.
- [00140] Figure 90 shows an example of a method to convert a vector of elements into another vector of elements using a vector look up unit according to one

KSK. 12-8-04 of the present invention.

[0094] Figure 39 illustrates another block diagram representation of a circuit for configuring look-up units into different look-up tables according to one embodiment of the present invention.

[0095] Figure 40 illustrates data representations for the execution of an instruction for performing table look-up of a vector of data elements according to one embodiment of the present invention.

[0096] Figures 41  $\times$  43 illustrate block diagram representations of circuits for performing table look-up of vectors of different sizes using a set of look up units according to one embodiment of the present invention.

[6097] Figure 44 shows a flow diagram for a method to perform table look-up of a vector of data elements according to one embodiment of the present invention.

[0098] Figure 45 illustrates a block diagram representation of a circuit for the execution of a method to load entries in look-up units using DMA controllers according to one embodiment of the present invention.

[0099] Figure 46 illustrates data representations for the execution of a method to load entries in look-up units using DMA controllers according to one embodiment of the present invention.

[00100] Figure 47 shows a flow diagram for a method to load entries in look-up units using DMA controllers according to one embodiment of the present invention.

[00101] Figure 48 illustrates a block diagram representation of a circuit for the execution of a method to set entries in look-up tables according to one embodiment of the present invention.

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